

# Magnetizing Method and Permanent Magnet Magnetized Thereby

## Abstract

The object of the present invention is to provide a magnetizing method which makes it easy to adjust a magnetization waveform. And the other object of the present invention is to provide a magnetizing method which makes it easy to adjust magnetization conditions and enables a more appropriate magnetization waveform to be obtained. A conductive attenuation body is arranged close to at least a part of surface of a material to be magnetized. The material is a substance having a far lower conductivity than that of the attenuation body. Furthermore, the change in magnetic field during magnetization is a so-called pulse, that is, magnetic flux thereof is rapidly intensified for a sufficiently short period of time and then rapidly weakened. The magnetization flux is impressed in form of penetrating the attenuation body. With the rapid change in the magnetization flux over time, in the conductive attenuation body, an eddy current is generated in a direction canceling the magnetization flux and thus the magnetization field weakens. The magnetization waveform can be adjusted by adjust-

ing a thickness, an arrangement shape or expanse of the attenuation body.